

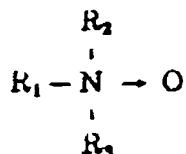
# EUROPEAN PATENT OFFICE

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APPLICANT : KAO CORP;



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TITLE : LIQUID DETERGENT COMPOSITION

ABSTRACT : PURPOSE: To produce a transparent liq. detergent compsn. which has excellent low-temp. stability in a weak acid region and excellent foaming capability, by adding a particular propylene oxide adduct of a polyhydric alcohol and a particular succinic acid deriv. to a system comprising an anionic surfactant and a tert. amine oxide in combination.

CONSTITUTION: The title composition comprises 10-40wt.% anionic surfactant (a), such as a polyoxyethylene alkyl ether sulfate or an alkylbenzenesulfonate, 0.5-10wt.% tert. amine oxide (b) of formula I (wherein R<sub>1</sub> is a 10-18C alkyl or alkenyl group; and each of R<sub>2</sub> and R<sub>3</sub> is a 1-2C alkyl group), 0.5-10wt.% propylene oxide adduct (c) of a polyhydric alcohol having an average MW of 300-4,000, and 0.2-5wt.% succinic acid deriv. (d) of formula II (wherein R<sub>4</sub> is a 10-18C alkyl or alkenyl group; and each of X and Y is a hydrogen atom, an alkali metal, ammonium or an alkanolamine). The proportions satisfy the relationship of b:a=0.05-1.0 (molar ratio), and the pH of the stock solution of the compsn. is in the range of 4.0-6.0.

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